Lat 40.21799 Lon -122.27612

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Subject: Douglas-fir Tussock Moth Pheromone Detection Survey - 1994 Report (NE95-5)

To: Forest Supervisors: Eldorado, Inyo, Lassen, Plumas, Modoc, Sierra, Stanislaus, Sequoia and Tahoe National Forests and Lake Tahoe Basin Management Unit

Enclosed are the results of the 1994 cooperative Douglas-fir tussock moth (DFTM) pheromone detection survey. Average trap catches for 1994 remained at low levels (Table 1.) throughout most of California. Data were collected for 130 plots (5 traps/plot) this year. Of these, 121 plots (93%) had fewer than an average of 10 males per trap, 8 plots (6%) averaged between 10-20 moths per trap and 1 plot had an average of 23 moths per trap. There were no plots that had more than an average of 25 male moths per trap (considered the minimum number of moths for follow-up surveys). There was a continued upward trend in moth catches from 1993 extending into 1994 on the Summit Ranger District, Stanislaus National Forest and the Mammoth Ranger District, Inyo National Forest.

Information for 27 additional plots will be collected when the areas become accessible. Traps for 7 plots were not put out this year because of fire responsibilities. Based on the results of this survey, significant DFTM activity is not anticipated in Region 5 in 1995.

Sufficient trapping materials have been ordered for the detection trapping plots for 1995. They will be distributed to cooperators in June or July of this year. Please direct any questions to Sheri Smith (916-257-2151) or John Wenz at (209-532-3671).

John Kleyneas

For JOHN NEISESS, FPM Program Leader
State and Private Forestry

Enclosure

Table 1.

NUMBER OF DOUGLAS–FIR TUSSOCK MOTH PHEROMONE DETECTION SURVEY PLOTS BY TRAP CATCH 1979–1994

Year	Total Number Plots	NUMBER OF PLOTS WITH AN AVERAGE MOTH CATCH PER TRAP OF:														
		0<10	10<20	20<25	25<30	30<35	35<40	40<45	45<50	50<55	55<60	60<65	65<70	70<75	75+
1979	102	97	2	1	1	0	1	0	0	0	0	0	0	0	0
	100%	95%	2%	1%	1%		1%								
1980	99	99	0	0	0	0	0	0	0	0	0	0	0	0	0
	100%	100%													
1981	93	78	10	4	1	0	0	0	0	0	0	0	0	0	0
	100%	84%	10%	4%	2%										
1982	95	93	1	0	1	0	0	0	0	0	0	0	0	0	0
	100%	98%	1%		1%										
1983	98	87	6	1	1	3	0	0	0	0	0	0	0	0	0
	100%	89%	6%	1%	1%	3%									
1984	111	51	18	11	5	7	8	4	3	4	0	0	0	0	0
	100%	46%	16%	10%	4%	6%	7%	4%	3%	4%					
1985	105	58	14	4	7	6	5	1	2	4	1	2	0	1	0
	100%	55%	13%	4%	6%	6%	5%	1%	2%	4%	1%	2%		1%	
1986	107	64	16	4	8	6	1	3	0	1	0	1	1	1	1
	100%	60%	15%	3%	7%	6%	1%	3%		1%		1%	1%	1%	1%
1987	108	80	15	4	2	1	1	3	0	1	0	0	1	0	0
	100%	74%	14%	4%	2%	1%	1%	2%		1%			1%		
1988	124	106	9	3	3	0	2	1	0	0	0	0	0	0	0
0	100%	86%	7%	2%	2%		2%	1%							
1989	130	129	1	0	0	0	0	0	0	0	0	0	0	0	0
	100%	99%	1%												
1990	138	135	1	0	1	1	0	0	0	0	0	0	0	0	0
	100%	97%	1%		1%	1%									
1991	143	135	4	1	0	0	2	1	0	0	0	0	0	0	0
	100%	94%	3%	1%			1%	1%							
1992	164	156	3	0	2	1	0	0	0	0	1	0	1	0	0
	100%	95%	1%		1%	1%					1%		1%		
1993	143	135	8	0	0	0	0	0	0	0	0	0	0	0	0
	100%	94%	6%												
1994	130	121	8	1	0	0	0	0	0	0	0	0	0	0	0
	100%	93%	6%	1%											